इंटरनेट मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”
Mazdoor Kisan Shakti Sangathan
“The Right to Information, The Right to Live”

“पुराने को छोड नये के तरफ”
Jawaharlal Nehru
“Step Out From the Old to the New”

IS 13991 (1994): Textile machinery and accessories-Cylindrical tubes for draw twisters - Dimensions and permissible run-out [TXD 14: Machinery for Fabric Manufacture]

“ज्ञान से एक नये भारत का निर्माण”
Satyanarayan Gangaram Pitroda
“Invent a New India Using Knowledge”

Act Number 22 of 2005
The Indian Parliament
RIGHT TO INFORMATION

Made Available By
Public.Resource.Org

“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”
Bhartṛhari—Nītiśatakam
“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE

BRUTUM FULMEN

IGNORANTIA JURIS NON EXCUSAT

PROTECTED BY COPYRIGHT

IS 13991 : 1994
ISO 1472 : 1977

भारतीय मानक

वस्त्रादि मशीनरी एवं सहायकांग — ड्रा ट्विस्टर के लिए बेलनाकार ट्यूब — आयाम एवं अनुमत रन-आउट

Indian Standard

TEXTILE MACHINERY AND ACCESSORIES — CYLINDRICAL TUBES FOR DRAW-TWISTERS — DIMENSIONS AND PERMISSIBLE RUN-OUT

UDC 677.052.962

© BIS 1994

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

June 1994

Price Group 2

Man-Made Fibre Processing Machinery Sectional Committee, TX 26

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 1472-1977 'Textile machinery and accessories — Cylindrical tubes for draw-twisters — Dimensions and permissible run-out', issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Man-Made Fibre Processing Machinery Sectional Committee and approval of the Textile Division Council.

In this standard certain terminology and conventions are not identical to those used in Indian Standards; attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker in the International Standard, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

AMENDMENT NO. 1 NOVEMBER 1999
TO
IS 13991 : 1994/ISO 1472 : 1977 TEXTILE MACHINERY AND ACCESSORIES — CYLINDRICAL TUBES FOR DRAW-TWISTERS—DIMENSIONS AND PERMISSIBLE RUN-OUT

NOTE — This Indian Standard was based on ISO 1472 : 1977 which was adopted under dual numbering system. Even though ISO 1472 : 1977 has since been withdrawn, the Committee responsible for preparation of Indian Standard decided to retain the Indian Standard. Accordingly, this amendment is being issued to delete reference to ISO 1472 : 1977

(*Cover page, pages* 1 *to* 4, *designation*) — Delete 'ISO 1472 : 1977'.

(TX 15)

Reprography Unit, BIS, New Delhi, India

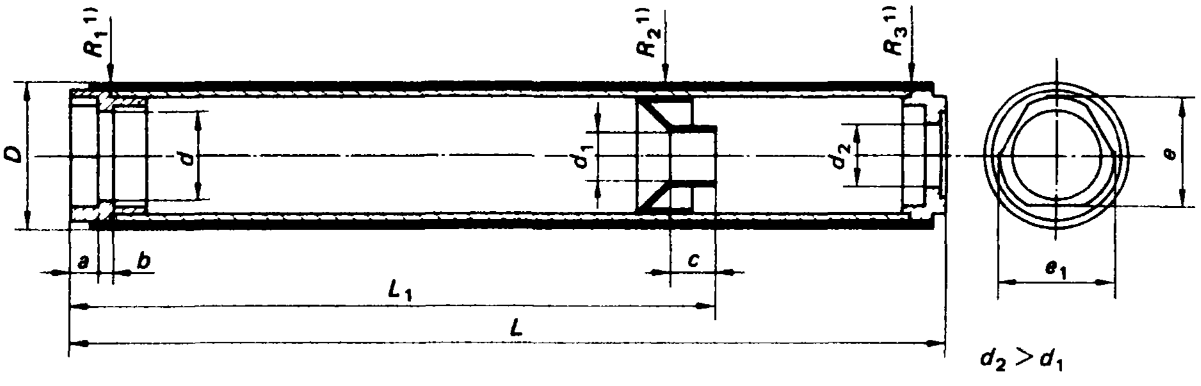
Indian Standard

TEXTILE MACHINERY AND ACCESSORIES — CYLINDRICAL TUBES FOR DRAW-TWISTERS — DIMENSIONS AND PERMISSIBLE RUN-OUT

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the main dimensions and tolerances of cylindrical tubes with triangular and square driving surfaces for draw-twisters, and gives the permissible run-out of these tubes

2 CYLINDRICAL TUBES WITH TRIANGULAR DRIVING SURFACE



NOTE – This drawing is only for the guidance of manufacturers and indicates only the main dimensions.

Values in millimetres

Symbol	1	2	3	4	5	6	7	8	Tolerance
L	305	340	360	380	400	420	450	470	$^{+1,0}_{0}$
L_1	225	225	272	272	272	272	272	312	$^{+1,0}_{0}$
D	46	46	46	46	46	46	46	75	
	51	51	51	51	51	51	51		
e	38,8	38,8	38,8	38,8	38,8	38,8	38,8	38,8	$^{+0,25}_{0}$
e_1	41,2	41,2	41,2	41,2	41,2	41,2	41,2	41,2	$^{+0,2}_{0}$
d	31,0	31,0	31,0	31,0	31,0	31,0	31,0	31,0	$^{+0,2}_{0}$
d_1	19,05	19,05	19,05	19,05	19,05	19,05	19,05	19,05	$^{+0,05}_{0}$
a min.	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	
b	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	
c	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	

Tolerance on mass for 1 000 complete tubes :

Nos. 1 to 7 : ± 1 %

No. 8 : ± 1,5 %

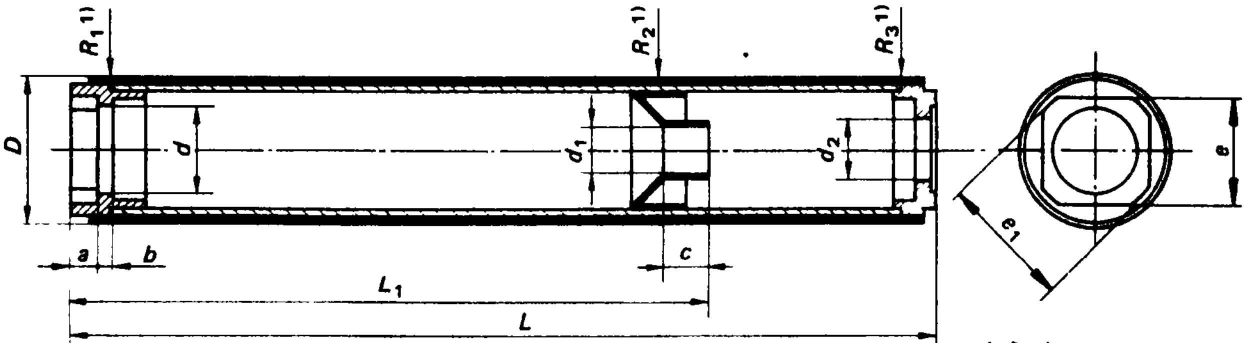
Example of designation :

Cylindrical tube No. 1, triangular driving surface, $D = 46$, ISO 1472

---

[1] For the permissible run-out R_1, R_2 and R_3, see clause 4.

3 CYLINDRICAL TUBES WITH SQUARE DRIVING SURFACE



$d_2 > d_1$

NOTE — This drawing is only for the guidance of manufacturers and indicates only the main dimensions.

Values in millimetres

Symbol	1	2	3	4	5	6	7	8	Tolerance
L	305	340	360	380	400	420	450	470	$^{+1,0}_{0}$
L_1	225	225	272	272	272	272	272	312	$^{+1,0}_{0}$
D	46	46	46	46	46	46	46	75	
	51	51	51	51	51	51	51		
e	38,1	38,1	38,1	38,1	38,1	38,1	38,1	38,1	$^{+0,25}_{0}$
e_1	41,2	41,2	41,2	41,2	41,2	41,2	41,2	41,2	$^{+0,2}_{0}$
d	31,0	31,0	31,0	31,0	31,0	31,0	31,0	31,0	$^{+0,2}_{0}$
d_1	19,05	19,05	19,05	19,05	19,05	19,05	19,05	19,05	$^{+0,05}_{0}$
a min.	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	
b	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	
c	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	

Tolerance on mass for 1 000 complete tubes :

Nos. 1 to 7 : ± 1 %

No. 8 : ± 1,5 %

Example of designation :

Cylindrical tube No. 1, square driving surface, $D = 46$, ISO 1472

---

1) For the permissible run-out R_1, R_2 and R_3, see clause 4.

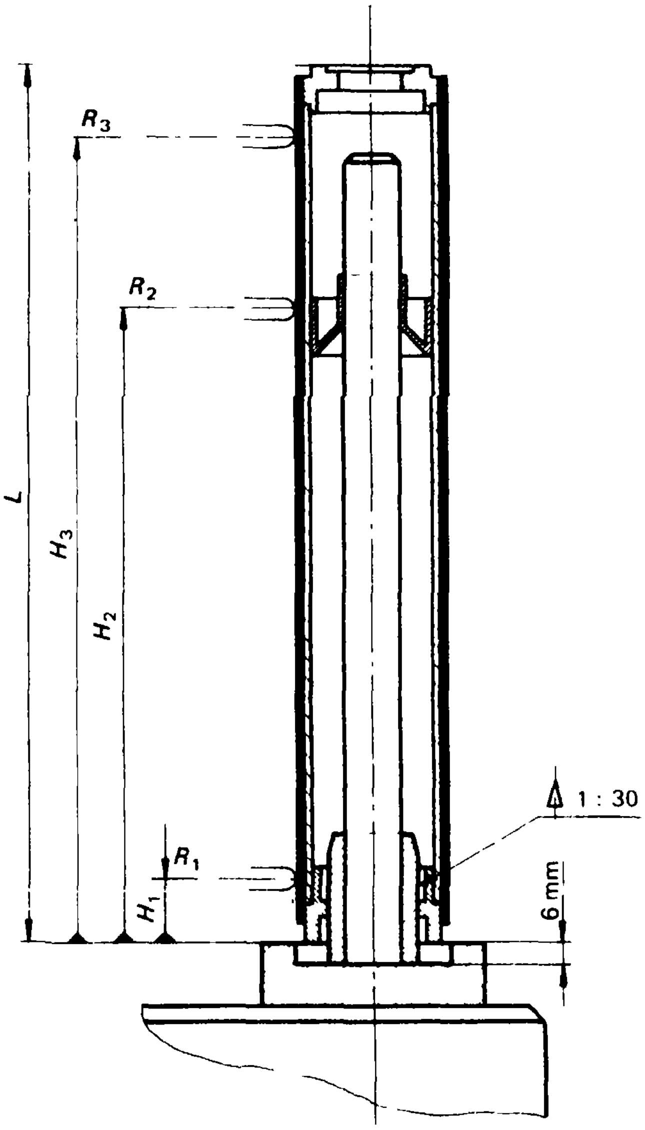
4 PERMISSIBLE RUN-OUT OF CYLINDRICAL TUBES

The tube shall fit on the gauge without any clearance.

H = Height at which the feeler of the measuring instrument is applied

L = Total length of cylindrical tube

R = Permissible run-out



Values in millimetres

Symbol	1	2	3	4	5	6	7	8
L	305	340	360	380	400	420	450	470
R_1 at height H_1	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20
R_2 at height H_2	0,2 220	0,2 220	0,2 260	0,2 260	0,2 260	0,2 260	0,2 260	0,2 300
R_3 at height H_3	0,25 280	0,25 315	0,25 335	0,25 355	0,25 375	0,25 395	0,25 425	0,25 445

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 1986* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Revision of Indian Standards

Indian Standards are reviewed periodically and revised, when necessary and amendments, if any, are issued from time to time. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition. Comments on this Indian Standard may be sent to BIS giving the following reference:

This Indian Standard has been developed from Doc : No. TX 26 (0048)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices :		Telephone
Central :	Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	331 01 31 331 13 75
Eastern :	1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola CALCUTTA 700054	37 84 99, 37 85 61, 37 86 26, 37 86 62
Northern :	SCO 445-446, Sector 35-C, CHANDIGARH 160036	53 38 43, 53 16 40, 53 23 84
Southern :	C. I. T. Campus, IV Cross Road, MADRAS 600113	235 02 16, 235 04 42, 235 15 19, 235 23 15
Western :	Manakalaya, E9 MIDC, Marol, Andheri (East) BOMBAY 400093	632 92 95, 632 78 58, 632 78 91, 632 78 92

Branches : AHMADABAD, BANGALORE, BHOPAL, BHUBANESHWAR, COIMBATORE, FARIDABAD, GHAZIABAD, GUWAHATI, HYDERABAD, JAIPUR, KANPUR, LUCKNOW, PATNA, THIRUVANANTHAPURAM.

Reprography Unit, BIS, New Delhi, India